



\*\*\* spare part \*\*\* SIMATIC S7-300, digital input SM 321, isolated, 8 DI, 120 V/230 V AC, 1x 20-pole

Figure similar

Supply voltage	
Load voltage L1	
<ul style="list-style-type: none"> <li>Rated value (AC)</li> </ul>	230 V; 120/230 V AC
Input current	
from backplane bus 5 V DC, max.	29 mA
Power loss	
Power loss, typ.	4.9 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 60 °C, max.	8
vertical installation	
— up to 40 °C, max.	8
Input voltage	
<ul style="list-style-type: none"> <li>Type of input voltage</li> <li>Rated value (AC)</li> <li>for signal "0"</li> <li>for signal "1"</li> </ul>	AC 230 V; 120/230 V AC (47 ... 63 Hz) 0 to 40V 79 to 264V
Input current	
<ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>	6.5 mA; (120 V); 11 mA (230 V)
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	25 ms
— at "1" to "0", max.	25 ms
Cable length	
<ul style="list-style-type: none"> <li>shielded, max.</li> <li>unshielded, max.</li> </ul>	1 000 m 600 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> <li>2-wire sensor</li> <li>— permissible quiescent current (2-wire sensor), max.</li> </ul>	Yes 2 mA
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
<ul style="list-style-type: none"> <li>Diagnostic alarm</li> </ul>	No

• Hardware interrupt	No
<b>Diagnostics indication LED</b>	
• Group error SF (red)	No
• Status indicator digital input (green)	Yes

**Potential separation**

<b>Potential separation digital inputs</b>	
• between the channels	No
• between the channels, in groups of	2
• between the channels and backplane bus	Yes; Optocoupler

**Isolation**

Isolation tested with	4 000 V DC
-----------------------	------------

**connection method**

required front connector	20-pin
--------------------------	--------

**Dimensions**

Width	40 mm
Height	125 mm
Depth	120 mm

**Weights**

Weight, approx.	240 g
-----------------	-------

**Classifications**

	Version	Classification
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

**Approvals / Certificates**

General Product Approval	EMV
--------------------------	-----



**For use in hazardous locations**      **Marine / Shipping**

[FM](#)



[NK / Nippon Kaiji Kyokai](#)

**Marine / Shipping**



[CCS \(China Classification Society\)](#)

last modified:

3/12/2024

